ELSEVIER

Comput. Methods Appl. Mech. Engrg. 113 (1994) 423–424

Computer methods in applied mechanics and engineering

Contents Volume 113

Volume 113, Nos. 1–2, March 1994

A unified set of single-step asymptotic annihilation algorithms for structural dynamics
G.M. Hulbert 1

A posteriori error estimation of *h-p* finite element approximations of frictional contact problems
C.Y. Lee and J.T. Oden 11

Shear-deformable axisymmetric conical shell element with 6-DOF and convergence of $O(h^4)$
V. Paramasivam and D.M. Raj 47

Wilson's element for the Reissner–Mindlin plate
Z. Zhang and S. Zhang 55

Complex wave-number dispersion analysis of Galerkin and Galerkin least-squares methods for fluid-loaded plates
K. Grosh and P.M. Pinsky 67

Numerical crosswind smear in the streamline diffusion method
B. Semper 99

A survey of parametrized variational principles and applications to computational mechanics
C.A. Felippa 109

Optimal design of nonlinear parabolic systems. Part I: Fixed spatial domain with applications to process optimization
D.A. Tortorelli, M.M. Tiller and J.A. Dantzig 141

Optimal design of nonlinear parabolic systems. Part II: Variable spatial domain with applications to casting optimization
D.A. Tortorelli, J.A. Tomasko, T.E. Morthland and J.A. Dantzig 157

A boundary integral modification of the Galerkin least squares formulation for the Stokes problem
J.-J. Droux and T.J.R. Hughes 173

Godunov type method on non-structured meshes for three-dimensional moving boundary problems
B. Nkonga and H. Guillard 183

Volume 113, Nos. 3–4, March 1994

Linear and geometrically nonlinear bending of isotropic and multilayered composite plates by the natural mode method
J. Argyris and L. Tenek 207

The expansion of functions under transformation and its application to optimization
Sui Yun-kang 253

Natural convection heat transfer in staggered vertical channels
M.S.S. Srinivas Rao and V.M.K. Sastri 263

p-Version least squares finite element formulation for axisymmetric incompressible non-Newtonian fluid flow
N.B. Edgar and K.S. Surana 271

Contact constraints within coupled thermomechanical analysis – A finite element model
P. Wriggers and C. Miehe 301

Physical stabilization of the 4-node shell element with one point quadrature
T. Belytschko and I. Leviathan 321

Numerical control of the Stefan problem: Maximum melting
A.J. Silva Neto and R.E. White 351

An efficient communications strategy for finite element methods on the Connection Machine CM-5 system
Z. Johan, K.K. Mathur, S.L. Johnsson and T.J.R. Hughes 363

A unified approach to compressible and incompressible flows
G. Hauke and T.J.R. Hughes 389

A new implementation of the element free Galerkin method
Y.Y. Lu, T. Belytschko and L. Gu 397

Author Index 415

Subject Index 417

Instructions to authors 421

Contents Volume 113 423